

Amendments to the Specification:

Please rewrite the paragraph beginning on page 6, line 11, as follows:

During the quenching step, which occurs after the annealing step, the ferrite remains essentially unchanged and the austenite transforms partially to martensite, depending on the relationship between the quenching temperature (QT), and the M_s temperature of the remaining austenite. M_s and M_f define the temperature range over which martensite forms. See Figure 2. The M_s temperature can be estimated using another correlation of Andrews:

$$M_s (^{\circ}\text{C}) = 539 - 423C - 30.4Mn - 12.1Cr - 17.7Ni - 7.5Mo \quad (5)$$

where C is carbon by weight percentage, Mn is manganese by weight percentage, Cr is chromium by weight percentage, Ni is nickel by weight percentage, and Mo is molybdenum by weight percentage. For a fully austenitized steel of this composition ($C_V=0.15\%$), the M_s temperature is about ~~[[456°C]]~~445°C, although for austenite at an intercritical annealing temperature of 810°C ($C_V\sim0.68\%$), the M_s temperature is about ~~[[355°C]]~~222°C.